Date

Tuesday, 10/23/2007 3:10:37 PM

User

Kim Johnston

Process Sheet

Customer

: CU-DAR001 Dart Helicopters Services

Type

S.O. No. :

Job Number

: 35325

Estimate Number P.O. Number

: 10/23/2007 This Issue

: NC

Prsht Rev. First Issue

: //

: 11921

: 28131

Previous Run Written By

Comment

Checked & Approved By

Est. 02.03.05

Re-format NG

: SMALL /MED FAB

Drawing Name

: TUBE ASSEMBLY

: D2003045

: N/A

: B

· UNDER REVI

Part Number

Drawing Number

Project Number

Drawing Revision Material

Due Date

: 11/20/2007

5 Um:

Each

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0

M304TR0500W035

304 RD Tube .500 x .035W

Comment: Qty.:

0.2625 f(s)/Unit Total:

1.3125 f(s)

304 RD Tube .500 x .035W

Cut as per template D2003-045 (2.44" long)-

Material: 1/2"Æ x 0.035" wall AISI 304 SS tubing

Cut: 3.50" long as per Dwg D2003 Material: M2650 N Heat sleeve

Batch: <u>M12941</u> x4

17/03232×1

02.10.29

town

POR TEMPLATE. COUNTY TO ENG. THE Batch: MID5354 @ HEAT SLEEVE LONGTH = 3.50"

> NOTE: DIMENSION THOWA above all for EFERENCE OUT.

2.0

Comment: Qty.:

0.3000 f(s)/Unit

Total:

1.5000 f(s)

Firesleeve-crkl .375IDia

3.0

Sleeve

Comment: Qty.:

2.0000 Each(s)/Unit

MS20819-8J Sleeve

Total:

10.0000 Each(s)

10.0000 Each(s)

Firesleeve-crkl .375IDia

Pick

Qtv Part Number Desc

Batch:

4.0

AN8188J

Pick

Comment: Qty.: 2.0000 Each(s)/Unit

Qty Part Number Desc

Total:

Batch:

AN818-8J

Nut

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES													
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector								
Q10,31	2	permonent disnoje 2650-14 not -6	l	H-1051		1									

Part No:	_ PAR #:	Fault Category:	NCR: Yes	No	DQA:	Date:
			QA: I	N/C C	losed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)												
		Description of NC		Corrective Action Section B		Varification	Approval Chief Eng	Approval QC Inspector						
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C								
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NOTE: Date & initial all entries

Date: Tuesday, 10/23/2007 3:10:37 PM User: Kim Johnston **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: TUBE ASSEMBLY Job Number: 35325 Part Number: D2003045 Job Number: Seq. #: Description: Machine Or Operation: SMALL FAB 1 SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 Form tube as per template D2003-045 Assemble as per Dwg D2003 6.0 QC5 INSPECT WORK TO CURRENT STEP Comment: INSPECT WORK TO CURRENT STEP 7.0 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 5 8.0 QC21 01.103 Comment: FINAL INSPECTION/W/O RELEASE Job Completion U Str. 1-31

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES													
DATE	STEP	PROCEDURE CHANGE	3		Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector							
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					4-1										
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
Part No	•	PAR #: Fault Category:	NCF	R: Yes	No DQ	 A:	Date:								

QA: N/C Closed: ____ Date: ____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)													
	T	Description of NC		Corrective Action Section E	3	Verification	Approval Chief Eng	Annewal							
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		Approval QC Inspector							
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		ě													

NOTE: Date & initial all entries





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i	CHEC	KEØ,	APPROVED	DRAWING NO. REV. B
	4	45	1 47	D2003 SHEET 1 OF 2
	DATE	,		TITLE SCALE
	99.0	06.08		206 CABIN HEATER TUBE ASSEMBLIES NTS
	Α		90.04.09	NEW ISSUE
	В	,	99.06.08	UPDATE PER TEMPLATES; ADD P/N'S; 0.025 TUBING NOW 0.035 (TSR1049)

RELEASED 44.06.03 KED

UNDER REVIEW

MAKE PER TEMPLATE

\$ 07.10.24

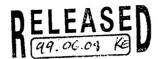
					06	.08.	2/2	R-	سا اد	mythsturory	_	401
P/N	TEMPLATE	HEATSLEEVE LENGTH	CUT LENGTH OF TUBE ²	MS20819-8J SLEEVE	AN818-8J NUT	MS20819-8D SLEEVE	AN818-8D NUT	MS20819-6D SLEEVE	AN818-6D NUT	DESC.	MATERIAL ^{4/8/7}	VENDOR OR SPEC
D2003-001	T2003-001	5.2	6.00				Ţ	2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-003	T2003-003	7.3	8.12					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-005	T2003-005	9.8	10.62					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-007	T2003-007	20.0	19.63					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-009	T2003-009	12.38	12.44					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-011	T2003-011	33.31	32.38					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-013	Ť2003-013	12.7	13.54					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-015	T2003-015	17.2	18.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-017	T2003-017	17.0	16.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-019	T2003-019	9.8	10.62			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-021	T2003-021	N/A	2.25			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-023	T2003-023	4.5	5.33			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-025	T2003-025	9.8	10,60			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-027	T2003-027	7.25	7.38			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-029	T2003-029	17.2	18,00			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-700/6
D2003-031	T2003-031	14.6	15.38	2	2					TUBE ASS'Y	CRÉS 0.500 OD x 0.035 W	AISI 304
D2003-033	T2003-033	29.75	29.62	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-035	T2003-035	24.7	27.00	2	2					TÚBE ASS'Y	ĆREŚ 0.500 OD x 0.035 W	AISI 304
D2003-037	T2003-037	24.81	23.38	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-039	T2003-039	34.0	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-041	T2003-041	6.0	5.88	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-043	T2003-043	11.7	10.75	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-045	T2003-045	3.50.	2:44	2	2					TUBE ASS'Ý	CRES 0.500 OD x 0.035 W	AISI 304
D2003-047	T2003-047	5.56	5.56	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-049	T2003-049	33.2	34.00	2	2					TUBE ASS'Y	CRES 0.500 OD x 0.035 W	AISI 304
D2003-077	T2003-077	N/A	6.25					1	1	JET	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-101	T2003-101	13.25	13.13					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-103	T2003-103	12.38	12.00					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-105	T2003-105	10.75	10.60					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-107	T2003-107	12.75	12.25					2	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-600/6
D2003-109	T2003-109	8.25	8.125			2	2			TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-111	T2003-111	4.75	4.625			2	2	ļ		TUBE ASS'Y	6061-T6 0.500 OD x 0.035 W	WW-T-600/6
D2003-116	T2003-116	4.0			6.7	773137	TIPY			HEATSLEEVE	M2650-20 CRINKLE-SOFT	STRATOFLEX
D2003-120	T2003-120	4.0			S	4OF				HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-14	T2003-14	4.0			F		U TO			HEATSLEEVE	M2650-14 CRINKLE-SOFT	STRATOFLEX
D2003-16	T2003-16	4.0	0.00		-	IGINI	FRIN	5		HEATSLEEVE	M2650-16 CRINKLE-SOFT	STRATOFLEX
D2003-205	T2003-205	9.75	9.60	7731	CON	TRO	LLE		py2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
D2003-207	T2003-207	3.75	3.75	UN	CO14	T TO	ANALS	2 (D.NE	2	TUBE ASS'Y	6061-T6 0.375 OD x 0.035 W	WW-T-700/6
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NO. 35355





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DESIGN	DRAWN BY	1	AEROSPA		
1	1.10	HAW	VKESBURY, ONTARIO	, CANADA	
CHECKED	APPROVED	DRAWING NO.		REV.	В
#1	14	D2003		SHEET 2 OF	2
DATE		TITLE		SCAL	E
99.06.08		206 CABIN H	HEATER TUBE	ASSEMBLIES NT	s





UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE

Notes:

- (1) USE STRATOFLEX M2650-6 CRINKLE-SOFT HEATSLEEVE.
- (2) TUBING ASSEMBLIES TO BE CUT AND BENT IN ACCORDANCE WITH TEMPLATES.
- (3) TUBES TO BE FLARED 30° TO MATE WITH FITTINGS MADE TO MS33514.
- (4) ENSURE SEAMLESS TUBING IS USED.
- (5) INSTALL HEATSLEEVE OVER ALL TUBES WITH A DESIGNATED LENGTH OF HEATSLEEVE PER THE PARTS LIST.
- (6) 5052 (WW-T-700/4) TUBING MAY BE SUBSTITUTED WHEN 6061 TUBING IS NOT AVAILABLE.
- (7) 0.049 WALL THICKNESS CRES TUBING MAY BE SUBSTITUTED WHEN 0.035 IS NOT AVAILABLE.
- (8) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

